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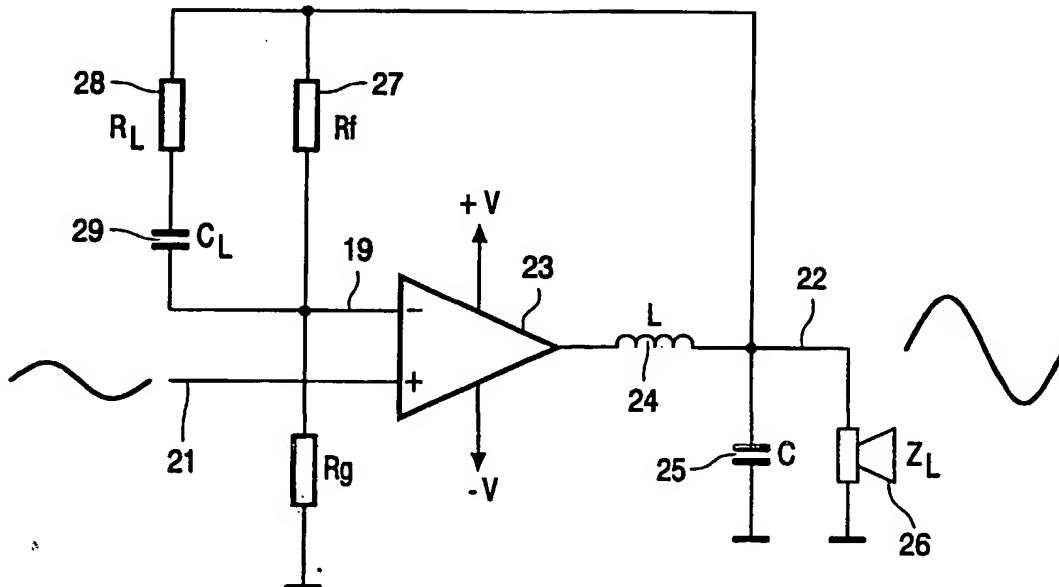
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(54) Title: POWER AMPLIFIER



(57) Abstract: A switching power amplifier of class D has switching means for generating a block wave signal by alternately switching the block wave signal between supply voltages. A filter (24,25) generates a power output signal (22) corresponding to an input signal to be amplified, which is coupled to a linear input (19) that is free of hysteresis. A control circuit (27,28,29) provides feedback between the output power signal and the linear input for controlling both the gain in the operational frequency range and also said alternately switching of the switching means. Hence the amplifier oscillates controlled via the same feedback loop that also controls the operational behavior of the amplifier, resulting in low output impedance and low distortion.

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(74) Agent: GROENENDAAL, Antonius, W., M.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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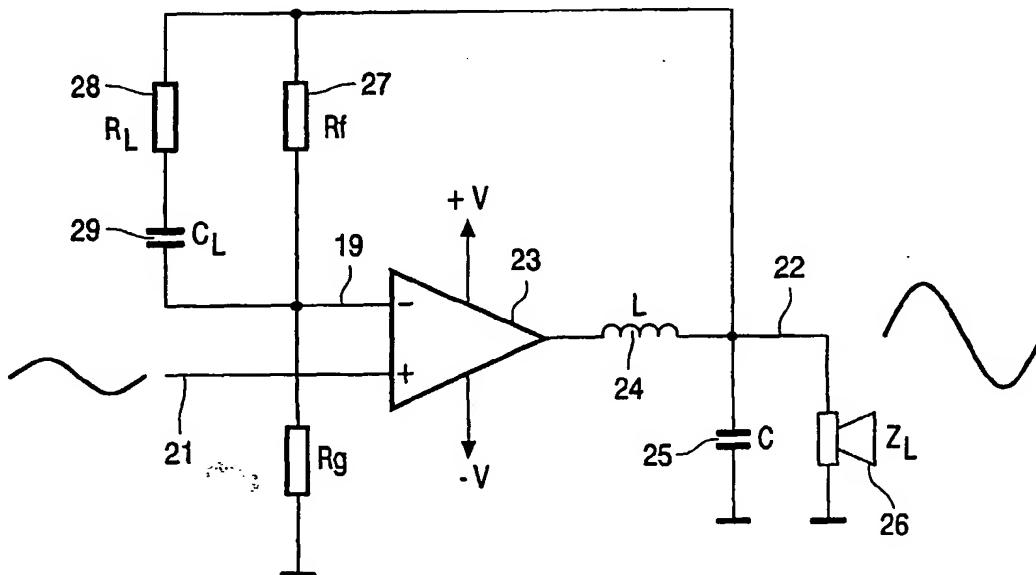
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	FR 1 602 588 A (SESCO) 28 December 1970 (1970-12-28) page 6, line 6 – page 7, line 40; figure 4	8
X	US 4 415 863 A (TOKUMO AKIO) 15 November 1983 (1983-11-15) column 3, line 13 – column 4, line 8; figure 3	1-5, 7, 9, 10 6, 8
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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